

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P276896

Luminaire Tested: **24CZ2-35HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.1 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

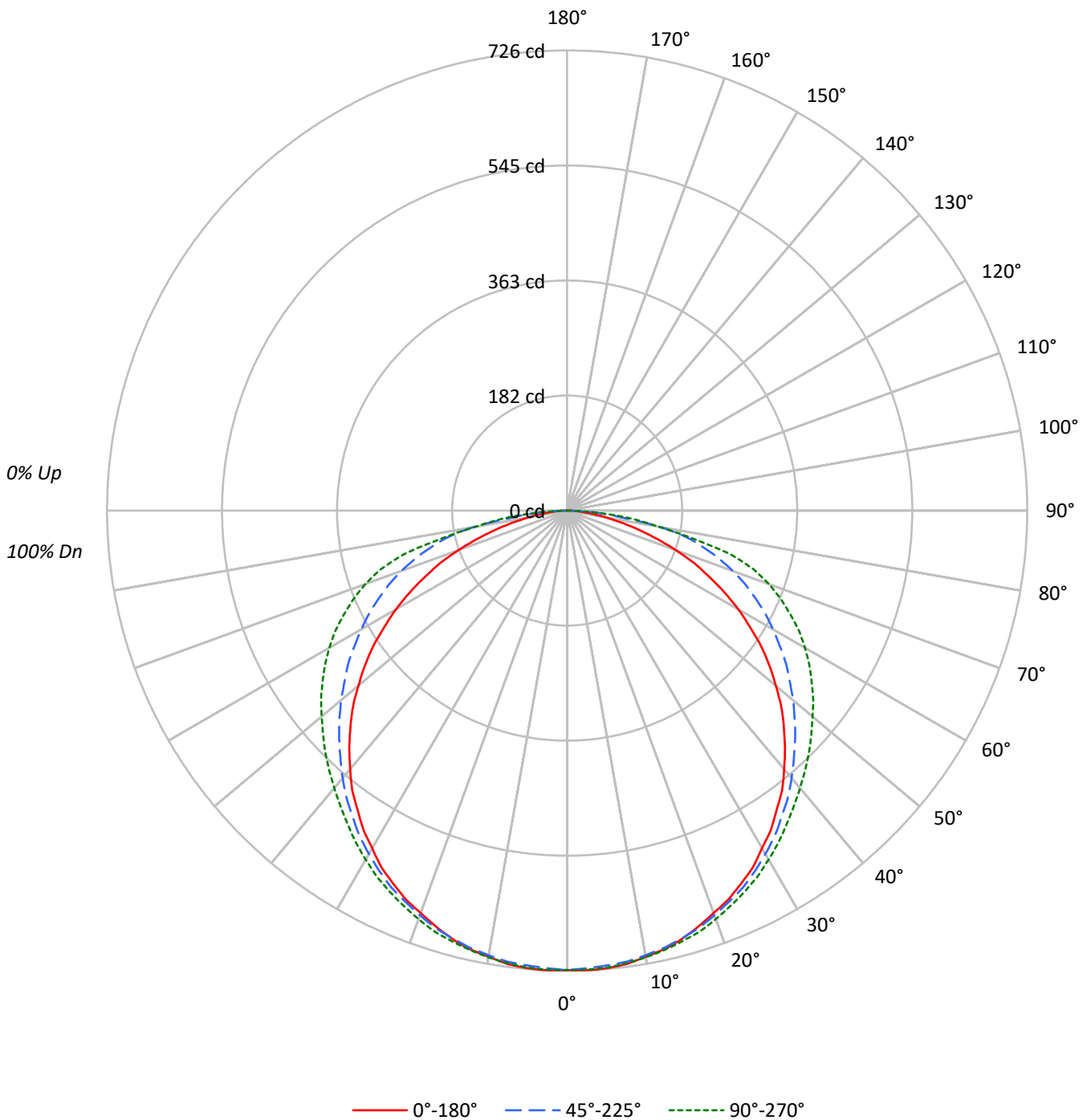
Input Watts (W): 24.738
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	975	975	975
5°	979	973	977
10°	976	973	978
15°	975	973	980
20°	967	973	982
25°	964	974	985
30°	956	972	988
35°	947	969	992
40°	936	968	1004
45°	920	968	1027
50°	900	974	1058
55°	877	990	1105
60°	840	1009	1166
65°	786	1045	1238
70°	715	1093	1331
75°	606	1153	1391
80°	478	1161	1125
85°	354	883	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.0
10°-20°	197.9	8.6
20°-30°	302.6	13.1
30°-40°	370.0	16.0
40°-50°	394.3	17.1
50°-60°	377.0	16.4
60°-70°	319.4	13.9
70°-80°	214.6	9.3
80°-90°	60.6	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	569.3	24.7
0°-40°	939.2	40.7
0°-60°	1710.6	74.2
0°-90°	2305.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	725	724	720	724	724	69
15°	700	700	699	704	703	197
25°	649	652	656	662	663	299
35°	576	581	590	601	604	361
45°	484	492	509	530	540	373
55°	374	388	422	455	471	333
65°	247	272	328	372	389	245
75°	117	159	222	260	268	125
85°	23	47	57	62	64	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	724.9	724.9	724.9	724.9	724.9
2.5°	726.0	726.0	722.6	724.9	724.9
5°	724.9	723.7	720.3	723.7	723.7
7.5°	721.5	720.3	718.0	721.5	720.3
10°	714.6	714.6	712.3	715.7	715.7
12.5°	708.9	707.7	706.6	711.2	710.0
15°	699.7	699.7	698.6	704.3	703.2
17.5°	688.3	689.4	690.6	695.2	696.3
20°	675.7	678.0	679.2	686.0	686.0
22.5°	664.3	665.4	667.7	674.6	674.6
25°	649.4	651.7	656.3	662.0	663.2
27.5°	634.6	635.7	641.4	649.4	650.6
30°	615.1	618.6	625.4	634.6	635.7
32.5°	598.0	601.4	609.4	618.6	620.8
35°	576.3	580.8	590.0	601.4	603.7
37.5°	556.8	560.2	571.7	584.3	587.7
40°	532.8	539.7	551.1	566.0	571.7
42.5°	508.8	515.7	529.4	548.8	555.7
45°	483.6	491.6	508.8	530.5	539.7
47.5°	458.5	467.6	487.1	512.2	522.5
50°	429.9	441.3	465.3	493.9	505.4
52.5°	402.5	416.2	442.5	474.5	489.4
55°	373.9	387.6	421.9	455.1	471.1
57.5°	341.9	360.2	397.9	435.6	452.8
60°	312.1	329.3	375.0	416.2	433.3
62.5°	280.1	303.0	352.2	395.6	412.8
65°	247.0	272.1	328.1	371.6	388.7
67.5°	217.2	244.7	304.1	347.6	364.7
70°	181.8	216.1	277.8	321.3	338.4
72.5°	148.6	186.4	250.4	292.7	308.7
75°	116.6	158.9	221.8	259.5	267.5
77.5°	86.9	131.5	192.1	208.1	202.4
80°	61.7	105.2	149.8	141.8	145.2
82.5°	40.0	80.0	92.6	105.2	108.6
85°	22.9	46.9	57.2	61.7	64.0
87.5°	10.3	17.2	22.9	22.9	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)